

1 Identification

- **Product identifier**
- **Trade name:** Rainbow Sprinkles Flavoring Oil
- **Other means of identification**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
TKB Trading
939 E 11th St
Oakland, CA 94606
www.tkbtrading.com
support@tkbtrading.com
- **Information department:** Regulatory Department

2 Hazard(s) identification

- **Classification of the substance or mixture**



Acute toxicity - oral 4 H302 Harmful if swallowed.
Sensitization - skin 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard-determining components of labeling:**
ETHYL MALTOL
ETHYL VANILLIN
VANILLIN
METHYL CINNAMIC ALDEHYDE
- **Hazard statements**
Harmful if swallowed.
May cause an allergic skin reaction.
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.

(Contd. on page 2)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 1)

Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.

Information pertaining to particular dangers for man and environment:

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

121-32-4	ETHYL VANILLIN ⚠ Acute toxicity - oral 4, H302	>10-≤25%
4940-11-8	ETHYL MALTOL ⚠ Acute toxicity - oral 3, H301	>2.5-≤10%
121-33-5	VANILLIN ⚠ Acute toxicity - oral 4, H302; Eye irritation 2A, H319	>2.5-<10%
705-86-2	DELTA DECALACTONE Flammable liquids 4, H227	≤2.5%
101-39-3	METHYL CINNAMIC ALDEHYDE ⚠ Sensitization - skin 1, H317	≥0.1-<1%
5989-27-5	ORANGE TERPENES ⚠ Flammable liquids 3, H226; ⚠ Aspiration hazard 1, H304; ⚠ Skin irritation 2, H315; Sensitization - skin 1B, H317	≥0.1-<1%

(Contd. on page 3)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

102-76-1	TRIACETIN	19 mg/m ³
5989-27-5	ORANGE TERPENES	15 ppm
123-11-5	Anisic aldehyde	21 mg/m ³
105-37-3	ETHYL PROPIONATE	6.3 ppm
123-86-4	BUTYL ACETATE	5 ppm

· **PAC-2:**

102-76-1	TRIACETIN	210 mg/m ³
5989-27-5	ORANGE TERPENES	67 ppm
123-11-5	Anisic aldehyde	230 mg/m ³
105-37-3	ETHYL PROPIONATE	69 ppm
123-86-4	BUTYL ACETATE	200 ppm

(Contd. on page 4)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 3)

· PAC-3:		
102-76-1	TRIACETIN	1,200 mg/m ³
5989-27-5	ORANGE TERPENES	170 ppm
123-11-5	Anisic aldehyde	300 mg/m ³
105-37-3	ETHYL PROPIONATE	410 ppm
123-86-4	BUTYL ACETATE	3000* ppm

· Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

121-33-5 VANILLIN	
WEEL	Long-term value: 10 mg/m ³

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 5)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 4)

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Color:	Clear pale yellow to yellow
· Odor:	Characteristic
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	266 °C (510.8 °F)
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>93 °C (>199.4 °F)
· Auto igniting:	410 °C (770 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	>0 hPa
· Vapor pressure:	
· Density at 20 °C (68 °F):	1.14614 g/cm ³ (9.56454 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.

(Contd. on page 6)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 5)

- **Other information**
- **Appearance:**
- **Form:** Liquid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Solvent content:**
- **Organic solvents:** 0.7 %
- **VOC content:** 0.65 %
- **Solids content:** 7.4 g/l / 0.06 lb/gal
- **Change in condition:** 25.3 %
- **Evaporation rate:** Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	966 mg/kg
------	------	-----------

121-32-4 ETHYL VANILLIN

Oral	LD50	1,590 mg/kg (rat)
------	------	-------------------

121-33-5 VANILLIN

Oral	LD50	1,580 mg/kg (rat)
------	------	-------------------

101-39-3 METHYL CINNAMIC ALDEHYDE

Oral	LD50	2,050 mg/kg (rat)
------	------	-------------------

5989-27-5 ORANGE TERPENES

Oral	LD50	4,400 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

(Contd. on page 7)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 6)

Irritant

· **Interactive effects** *No interactive effects between components are known.*

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

5989-27-5 | ORANGE TERPENES

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** *No further relevant information available.*

· **Persistence and degradability** *No further relevant information available.*

· **Bioaccumulative potential** *No further relevant information available.*

· **Mobility in soil** *No further relevant information available.*

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

· **Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA** *not regulated*

· **UN proper shipping name**

· **DOT, IMDG, IATA** *not regulated*

· **Transport hazard class(es)**

· **DOT, ADN, IMDG, IATA**

· **Class** *not regulated*

(Contd. on page 8)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 7)

- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Special precautions for user** Not applicable.
- **UN "Model Regulation":** not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):** All substances are active or exempt.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Regulatory Department

(Contd. on page 9)

Trade name: Rainbow Sprinkles Flavoring Oil

(Contd. of page 8)

- **Date of previous version** 09/24/2025
- **Date of preparation** 05/12/2026
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - Flammable liquids 3: Flammable liquids – Category 3
 - Flammable liquids 4: Flammable liquids – Category 4
 - Acute toxicity - oral 3: Acute toxicity – Category 3
 - Acute toxicity - oral 4: Acute toxicity – Category 4
 - Skin irritation 2: Skin corrosion/irritation – Category 2
 - Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 - Sensitization - skin 1: Skin sensitisation – Category 1
 - Sensitization - skin 1B: Skin sensitisation – Category 1B
 - Aspiration hazard 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**

US